

PTO/SB08A (08-00)

Approved for use through 10/31/2002 OMB 0651-0031  
Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

Please place plus sign (+) inside this box → [+]



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

COMPLETE IF KNOWN

|                        |                 |
|------------------------|-----------------|
| Application Number     | 09/778,652      |
| Confirmation Number    | 5486            |
| Filing Date            | 2/7/2001        |
| First Named Inventor   | Gartstein et al |
| Group Art Unit         | Unknown         |
| Examiner Name          | Unknown         |
| Attorney Docket Number | 8435            |

SHEET 1 of 2

### U. S. PATENT DOCUMENTS

| EXAMINER INITIALS* | Cite No. <sup>1</sup> | U.S. PATENT DOCUMENT Number<br>Kind Code <sup>2</sup><br>(if known) | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|---|---|---|--|
|                    | 1                     | 5,016,173   | Kenet et al                                     | 05/14/1991  |  |
|                    | 2                     | 5,331,472   | Rassman   | 07/19/1994  |  |
|                    | 3                     | 5,487,140   | Toya  | 01/23/1996  |  |
|                    | 4                     | 5,836,872   | Kenet et al                                     | 11/17/1998  |  |
|                    | 5                     | 5,841,892   | McGrath et al                                   | 11/24/1998  |  |

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

| EXAMINER INITIALS* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T <sup>6</sup> |
|--------------------|-----------------------|--|----------------|
|                    | 6                     | BADRELDIN, A. M., "Automatic Analysis of Collagen Fibril Images", Proceedings of the 1987 IEEE International Conference on Systems, Man and Cybernetics, October 20-23, 1987, Alexandria, VA, pg. 941-943  |                |
|                    | 7                     | BLUME, U ET AL, "The vellus hair follicle in acne: hair growth and sebum excretion", British Journal of Dermatology, (1993), Vol. 129, pg.23-27  |                |
|                    | 8                     | CHATENAY, F. ET AL "Phototrichogram: An entirely automated method of quantification by image analysis," Hair research for the next Millenium, (1996), pg 105-108.  |                |
|                    | 9                     | CORDELLA , L. ET AL, "Algorithms for Extraction of Morphological features," 2 <sup>nd</sup> International conference on Visual Psychophysics and medical imaging; July 2-3, 1981, Brussels, Belgium; pg 131-138  |                |
|                    | 10                    | COURTOIS, M. ET AL, "Ageing and hair cycles", British Journal of Dermatology, (1995) Vol. 132, pg. 86-93.  |                |
|                    | 11                    | COURTOIS, M. ET AL, "Hair cycle and Alopecia", Skin Pharmacol (1994) Vol. 7, pg. 84-89   |                |
|                    | 12                    | COURTOIS, M. ET AL, "Periodicity in the growth and shedding of hair" British Journal of Dermatology, (1996) Vol. 134, pg. 47-54.   |                |
|                    | 13                    | DAWBER, R., "The Physiology/embryology of hair growth", Diseases of the Hair and Scalp, Third Edition; Blackwell Science, pg. 19-22.   |                |
|                    | 14                    | DIXON, R. et al, "Asbestos Fibre Counting by Automatic Image Analysis" Scann Electron Microscopy (1979), pg. 361-366   |                |
|                    | 15                    | DUMAS K et al, "The Psoriasis Bio-assay for Topical Corticosteroid Activity", Acta Dermatovener (Stockholm), 1972, vol. 52, pg. 43-48.   |                |
|                    | 16                    | FRIEDEL J. ET AL, "Le Phototrichogramme: Adaptation, standardization et applications" Ann. Dermatol. Venereol., (1989) Vol 116, pg. 629-636.   |                |
|                    | 17                    | GIBBONS R. ET AL, "Quantification of Scalp Hair—A computer-Aided Methodology", Journal of Investigative dermatology, (1986), Vol. 85, pg. 78-82.   |                |
|                    | 18                    | GLASBEY C. ET AL, "Towards the Automatic Measurement of Cashmere-fibre Diameter by Image Analysis," Journal Textile Inst. (1994) Vol. 85 No. 3, pg. 301-307  |                |
|                    | 19                    | GUARRERA M. ET AL, "Anagen Hairs May Fail to Replace Telogen Hairs in Early Androgenic Female Alopecia" Dermatology, (1996) Vol. 192, pg. 28-31  |                |
|                    | 20                    | GUARRERA, M. ET AL, "Delayed Telogen Replacement in a Boy's Scalp" Dermatology, (1998), Vol. 197, pg. 335-337.   |                |
|                    | 21                    | HAYASHI, S. ET AL, "Measurement of Human Hair Growth by Optical Microscopy and image Analysis" British Journal of Dermatology, (1991) Vol. 125, pg. 123-129.   |                |

OIRE JC189  
JUN 14 2001  
U.S. PATENT & TRADEMARK OFFICE

|           |    |  |  |
|-----------|----|--|--|
| PATENT    | 22 | TRECHY, R ET AL, "Phototrichogram Analysis of Hair Follicle Stimulation: A Pilot Clinical study with Peptide-Copper Complex." Dermatologic Research Techniques, (1996) pg. 217-226   |  |
| TRADEMARK | 23 | MCKENZIE, A. ET AL, " Method for Comparing Percutaneous Absorption of steroids" Archives of Dermatology, pg. 608-610.  |  |
|           | 24 | MLEKUSCH, B. "Fibre orientation in Short-fibre-reinforced thermoplastics. II. Quantitative measurements by image analysis." Composites Science and Technology, (1998) Vol. 59, pg. 547-560.  |  |
|           | 25 | NGUYEN, N et al, "Curvature Measurement of Crossing Fibres by Image Analysis" Journal of Pulp and Paper Science, (1994), Vol 20, No. 8, pg. J226-J230.   |  |
|           | 26 | OLSON, J. ET AL, "An Analyzer for Fibre Shape and Length" Journal of Pulp and Paper Science, (1995) Vol. 21, no. 11, pg. J367-J373.  |  |
|           | 27 | RUSHTON, H. ET AL, "Comparative Evaluation of Scalp Hair by Phototrichogram and Unit area Trichogram Analysis within the same Subjects", Acta Derm Venereol (Stockholm) 1993, vol. 73, pg. 150-153.  |  |
|           | 28 | SAITO, M. ET AL, "Human Hair Cycle" The Journal of Investigative Dermatology, (1970) Vol 54, No. 1, pg. 65-81  |  |
|           | 29 | SAITO, M. ET AL, "Rate of Hair Growth, Chapter XIV", pg. 183-201   |  |
|           | 30 | STOUGHTON, R. B. "Bioassay System for Formulations of Topically Applied Glucocorticosteroids" Arch Derm, (1972) Vol. 106, pg. 825-827  |  |
|           | 31 | UNO, H. ET AL, "Chemical Agents and Peptides Affect Hair Growth" The Journal of Investigative Dermatology, (1993), Vol. 101 No. 1, pg. 143S-147S.  |  |
|           | 32 | VAN NESTE, D. J. J. "Hair Growth Evaluation in Clinical Dermatology" Dermatology, (1993), Vol. 187, pg. 233-234.   |  |
|           | 33 | VAN NESTE, D. J. J., "The Phototrichogram: Analysis of Some Technical Factors of Variation" Skin Pharmacol (1994) Vol. 7, pg. 67-72.   |  |
|           | 34 | VAN NESTE, D. J. J., "Phototrichogram analysis: Technical aspects and problems in relation to automated quantitative evaluation of hair growth by computer-assisted image analysis." Trends in Human Hair Growth and Alopecia Research (1989) pg. 155-165. |  |
|           | 35 | XU, B. ET AL "Determining Fiber Orientation Distribution in Nonwovens with Hough Transform Techniques" Textile Res. Journal (1997) Vol. 67(8), pg. 563-571.  |  |
|           | 36 | XU, B. ET AL "Fiber-image Analysis Part I: Fiber-image Enhancement" Journal Textile Inst., (1996) Vol. 87, part 1, No. 2, pg. 274-283.   |  |
|           | 37 | XU, B. ET AL "Fiber-image Analysis Part II: Measurement of General Geometric Properties of Fibers" Journal Textile Inst., (1996) Vol. 87, part 1, No. 2, pg. 284-295.  |  |
|           | 38 | WHITE, R. ET AL, "Automatic derivation of initial match points for paired digital images of skin" Computerized Medical Imaging and Graphics (1992) Vol. 16, No. 3, pg. 217-225.  |  |
|           | 39 | WALKDEN, V. ET AL "A study of the effects of topical minoxidil in the treatment of androgenic alopecia using phototrichograms" British Journal dermatology (1989) Vol 121, Supp. 34, pg. 32-33   |  |
|           | 40 | ISHINO, A. ET AL, "Quantitative Evaluation of Human Hair Growth by Image Analysis" Skin Pharmacology (1992) Vol 5, pg. 223-224.  |  |
|           | 41 | ANTERRIEU, E. ET AL, "Computer aided phototrichogram analysis" Journal Invest. Dermatology (1998) Vol 16, pg. S115   |  |
|           | 42 | VAN NESTE, D. J. J. ET AL, "Finasteride in the Treatment of Men with Androgenetic Alopecia Using a Phototrichogram Technique" Journal of Investigative Dermatology (1999) Vol 112, pg. 653.  |  |
|           | 43 | CANFIELD, "Dermatologic Clinics", (1996), Vol 14, No. 4, pg. 713-721.  |  |

| EXAMINER | DATE CONSIDERED |
|----------|-----------------|
|          |                 |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, D.C. 20231.